Appln. No.: 10/511,890 MAT-8601US

Amendment Dated: October 19, 2006 Reply to Office Action of July 20, 2006

<u>Amendments to the Claims:</u> This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A piezoelectric loudspeaker comprising:

a diaphragm having a first surface and a second surface opposite to the first surface, the diaphragm having a first area and a second area different from the first area;

a first piezoelectric material provided in aon a portion of the first surface within the first area of the diaphragm; and

a second piezoelectric material provided in aon a further portion of the first surface within the second area of the diaphragm—different from the first area, second piezoelectric material having a sound reproduction frequency range different from band from a sound reproduction frequency range of the first area; and

a base provided on the second surface of the diaphragm, the base having a first opening and a second opening provided therein, the first opening allowing a portion of the second surface within the first area to be exposed through the first opening, the second opening allowing a further portion of the second surface within the second area to be exposed through the second opening, the first opening having a size different from a size of the second opening.

- 2. (Original) The piezoelectric loudspeaker according to claim 1, wherein the first and second piezoelectric materials include first and second piezoelectric thin films, respectively.
  - 3. (Cancelled)
- 4. (Original) The piezoelectric loudspeaker according to claim 1, wherein the first and second piezoelectric materials have sizes different from each other.
  - 5. (Cancelled)
  - 6. (Cancelled)

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7. (Currently Amended) A loudspeaker system comprising:

a piezoelectric loudspeaker including:

- a diaphragm having a first surface and a second surface opposite to the first surface, the diaphragm having a first area and a second area different from the first area,
- a first piezoelectric material provided in aon a portion of the first surface within the first area of the diaphragm, and
- a second piezoelectric material provided in aon a further portion of the first surface within the second area of the diaphragm—different from the first area, second piezoelectric material having a sound reproduction frequency range different from band from a sound reproduction frequency range of the first area; and

a base provided on the second surface of the diaphragm, the base having a first opening and a second opening provided therein, the first opening allowing a portion of the second surface within the first area to be exposed through the first opening, the second opening allowing a further portion of the second surface within the second area to be exposed through the second opening, the first opening having a size different from a size of the second opening; and

another loudspeaker having a sound reproduction frequency range lower than the <u>respective</u> sound reproduction frequency ranges of the first and second areas of the piezoelectric loudspeaker.

- 8. (Currently Amended) An electronic device comprising:
- a piezoelectric loudspeaker including:
- a diaphragm having a first surface and a second surface opposite to the first surface, the diaphragm having a first area and a second area different from the first area,

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a first piezoelectric material provided in aon a portion of the first surface within the first area of the diaphragm,—and

a second piezoelectric material provided in aon a further portion of the first surface within the second area of the diaphragm—different from the first area, second piezoelectric material having a sound reproduction frequency range different from band from a sound reproduction frequency range of the first area; and

a base provided on the second surface of the diaphragm, the base having a first opening and a second opening provided therein, the first opening allowing a portion of the second surface within the first area to be exposed through the first opening, the second opening allowing a further portion of the second surface within the second area to be exposed through the second opening, the first opening having a size different from a size of the second opening; and

a sound source connected to the piezoelectric loudspeaker.

- 9. (New) The piezoelectric loudspeaker according to claim 1, wherein the second area of the diaphragm has a sound reproduction frequency range different from a sound reproduction frequency range of the first area of the diaphragm.
- 10. (New) The loudspeaker system according to claim 7, wherein the sound reproduction frequency range of the second area of the diaphragm is different from the sound reproduction frequency range of the first area of the diaphragm.
- 11. (New) The electronic device according to claim 8, wherein the second area of the diaphragm has a sound reproduction frequency range different from a sound reproduction frequency range of the first area of the diaphragm.